

1144. SINGULISPHAERA MEDIUM

N-acetylglucosamine	1.0	g
KH ₂ PO ₄	0.1	g
Hutners basal salts (see below)	20.0	ml
Na-ampicillin (may be omitted for pure cultures)	0.2	g
Peptone	0.1	g
Yeast extract	0.1	g
Agar-agar (Difco)	18.0	g
Distilled water	1000.0	ml

Adjust pH to 5.8.

Hutners basal salts:

Nitritotriacetic acid (NTA)	10.00	g
MgSO ₄ × 7 H ₂ O	29.70	g
CaCl ₂ × 2 H ₂ O	3.34	g
(NH ₄)MoO ₇ O ₂₄ × 4 H ₂ O	9.25	mg
FeSO ₄ × 7 H ₂ O	99.00	mg
"Metals 44" (see below)	50.00	ml
Distilled water	950.00	ml

Dissolve the nitritotriacetic acid, adjust the pH to 7.0 with KOH (about 7.3 g). Dissolve other salts separately, combine and adjust the pH to 6.8 with NaOH or H₂SO₄.

"Metals 44":

Na-EDTA	250.0	mg
ZnSO ₄ × 7 H ₂ O	1095.0	mg
FeSO ₄ × 7 H ₂ O	500.0	mg
MnSO ₄ × H ₂ O	154.0	mg
CuSO ₄ × 5 H ₂ O	39.2	mg
Co(NO ₃) ₂ × 6 H ₂ O	24.8	mg
Na ₂ B ₄ O ₇ × 10 H ₂ O	17.7	mg
Distilled water	1000.0	ml

Dissolve the EDTA and add a few drops of concentrated H₂SO₄ to retard precipitation of the heavy metal ions.